

**MATERIAL SAFETY DATA SHEET**

Gardner Asphalt Corporation P.O. Box 5449 Tampa, FL 33675

A. IDENTIFICATION AND EMERGENCY INFORMATION

Product Name: Sta-Kool 690 Rubberized Roof Coating

Product Code: SK-690

Chemical Name: Asphalt, Clay, and Water

CAS Number: N/A A
Complex
Mixture

Product Appearance and Odor: A moderately thick, dark brown to black colored liquid with an acrylic like odor.

Emergency Telephone Number: CHEMTREC 1-800-424-9300

B. COMPONENTS AND HAZARD INFORMATION

<u>Components</u>	<u>CAS No.</u>	<u>ACGIH TLV</u>	<u>Approximate Concentration</u>
Petroleum Asphalt	8052-42-4	5.0mg/m(3) (fume)	Less than 40%
Clay Stabilizer	1332-58-7	2.0mg/m(3)*	Less than 10%
Acrylic Copolymer	Not Established	Not Hazardous	Less than 10%
Water	7732-18-5	Not Hazardous	Greater than 50%

* As respirable fraction of dust.

Hazardous Materials Identification System: (HMIS)HealthFlammabilityReactivityBasis

1

0

0

Recommended
By Gardner
Asphalt

C. PRIMARY ROUTES OF ENTRY AND EMERGENCY & FIRST AID PROCEDURE

Eye Contact: If eye contact should occur it may cause severe irritation, redness, tearing and blurred vision. Flush with large amounts of water for at least 15 minutes. Get medical attention.

Skin If skin contact should occur, remove contaminated clothing/shoes, wipe excess from skin. Wash affected areas with mild soap and water. If irritation develops and persists, seek medical attention. Do not reuse clothing/shoes until thoroughly laundered.

Inhalation Remove from exposure. If breathing is difficult, administer oxygen. If breathing has stopped, administer artificial respiration. Keep person warm and quiet. Seek medical attention immediately.

Ingestion: Should ingestion occur, DO NOT INDUCE VOMITING - transport to hospital immediately. Get medical attention.

Flash Point (Minimum):
400 degrees F. (Asphalt)

690

Autoignition Temperature (Dry Film):
Not Established

National Fire Protection Association (NFPA) - Hazard Identification

Health

0

Flammability

0

Reactivity

0

Basis

Recommended
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Asphalt

Handling Precaution Keep all containers tightly closed and in a properly ventilated area, away from sources of heat or flame.

Flammable or Explosive Limits: (Approximate percent by volume in air)

Lower (LEL) None Known

Upper (UEL) None Known

Extinguishing Media and Fire Fighting Procedures:

Firemen should wear self-contained breathing apparatus to protect against inhalation of combustion products. Water may be used to keep fire exposed containers cool. Use dry chemical or water fog as extinguishing media.

Decomposition Products under Fire Conditions:

Pyrolysis products of aromatic hydrocarbons.

Empty Container Warning:

Dispose of in an environmentally safe manner and in accordance with governmental regulations. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION, THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** Do not attempt to clean since residue is difficult to remove. For work on tanks, refer to OSHA regulation ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations.

E.

HEALTH AND HAZARD INFORMATION

Variability Among Individuals:

Health studies have shown that individual sensitivities vary from person to person. As a precaution, exposure to vapors, liquids, mists, or fumes should be minimized.

Effects of Overexposure:

None Known

Nature of Hazard and Toxicity Information:

None Known

Pre-existing Medical Conditions Which May be Aggravated by Exposure:

None Known

F.

PHYSICAL DATA

The following are approximate or typical values and should not be used for precise design purposes

Boiling Range :

Greater than 212 degrees F.

Vapor Pressure :

Less than 1mm/Hg @ 25 deg.. C

Specific Gravity :**Vapor Density :****Molecular Weight :**

N/A A Complex Mixture.

Percent Volatile by Volume:**pH:****Evaporation Rate @ 1 ATM & 25 deg C (77 deg F)**

Slower than ether

Pour Congealing or Melting Point**Solubility in Water @ 77 deg. F.**

Partially Miscible

Viscosity:

G. REACTIVITY

This product is stable and will not violently react with water. Hazardous polymerization will not occur. Avoid heat or open flame and strong oxidizers.

H REGULATORY / ENVIRONMENTAL INFORMATION

Steps to be taken in case material is released or spilled:

Large Spills: Evacuate all unnecessary personnel from affected area. Do not re-enter affected area without proper protective equipment (Section I). Ventilate area of spill. Collect in most safe manner for disposal or reclamation in sealed containers.

SARA Title III Section 313 - Toxic Chemicals

This product does not contain toxic chemicals of Section 313 of Title III of Superfund Amendments and Reauthorization Act of (SARA) and 40 CFR Part 372.

SARA Title III Section 311 - Hazard Categories

Not Established

SARA Title III Section 302(a) - Extremely Hazardous Substances

This product does not contain Extremely Hazardous Substances of Section 302(a).

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act Section 102 Hazardous Substances, 42 U.S.C. 9602

Not Established

EPA Hazard Classification Code:

Acute

Chronic

Fire

Pressure

Reactive

Not Applicable

XXX

I. PROTECTION AND PRECAUTION

Ventilation:

Ventilation should be adequate. Maintain vapor and/or particulate levels below the applicable exposure limits.

Respiratory Protection:

Use NIOSH/MSHA approved respirator when TLV is exceeded.

Protective Gloves:

Use protective chemical resistant gloves such as neoprene or nitrile-butadiene rubber gloves.

Eye Protection:

Safety glasses or splash goggles should be used. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL.

Other Protective Equipment:

Employees who have prolonged or repeated exposure should wear gloves and clothing that is impervious to product.

Work Practices:

Keep containers closed when not in use. DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS.

Personal Hygiene:

Employees who handle this material should cleanse hands thoroughly before eating and smoking. Minimize breathing vapors or mist. Remove contaminated clothing, launder or dry clean before reuse. Remove contaminated shoes and thoroughly clean and dry before use.

J. TRANSPORTATION INFORMATION

Transportation Incident Info:

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

DOT Identification Number:

Not Established

The information and recommendations contained herein are to the best of Gardner Asphalt's knowledge and belief, accurate and reliable as of the date issued. Gardner Asphalt does not warrant or guarantee their accuracy or reliability, and Gardner Asphalt shall not be liable for any loss or damage arising out of the use thereof.

This information and recommendations are offered for the users consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

The environmental information included in Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Gardner Asphalt Corporation in order to provide additional health and hazard classification information. The ratings are based upon the criteria supplied by the developers of these ratings systems, together with Gardner Asphalt's interpretation of the available data.

For Other Product Information Contact:

Manager, Customer Service
Gardner Asphalt Corporation
P.O. Box 5449
Tampa, FL 33675-5449
(813) 248-2101



PRODUCT DATA SHEET

RUBBERIZED ROOF COATINGS

Sta-Kool® Ultra Flexible Rubberized Roof Coating

Can be used on

- Cement Tile (Flat or Barrel)
- Metal Roofs (aged Galvanized)
- Polystyrene Foam
- Mobile Home Roofs
- Bonded Gravel Roofs
- Aged Roofs previously coated with asphalt, aluminum, or tar
- Built-up Roofs
- Polyester Plastic Panel
- Urethane Foam
- R V Bam and Shed Roofs
- Asphalt Shingle Roofs

DESCRIPTION: Sta-Kool # 690 Rubberized Roof Coating is a high performance roof coating which can be applied over virtually any type of roof surface. This watertight coating forms a seamless barrier that will stop leaks and withstand water. Its elastic properties produce an outstanding shield of protection for any roof in bad conditions or good. This product actually forms a thick rubber shield that expands and contracts with the roof's surface to resist peeling, cracking and extreme temperature changes. Sta-Kool # 690 Rubberized Roof Coating also provides excellent bonding characteristics to many roof surfaces and should be used in conjunction with Stress-Block # 190 Reinforcing Fabric. Do Not Allow Stored Product To Freeze.

PREPARATION: All surfaces must be dry and free of dust, dirt, oil, loose granules, gravel or peeling paint and all other foreign matter. Rusty metal must be cleaned with a wire brush before application of this product. Pressure washing entire surface is recommended for best results (use only a wide fan spray tip). Repair all leaks, seams and cracks with Sta-Kool # 330 White Roof Patch or Sta-Kool # 690 and Stress-Block # 170 Seam and Repair Fabric (See Instructions On Fabric). Surfaces previously coated with aluminum, asphalt or tar should be allowed to cure for a minimum of one summer season prior to coating with this product. Surfaces with mildew growth or stains must be cleaned with a bleach solution (2 parts water to one part bleach). Be certain all surfaces are thoroughly rinsed and dry prior to applying coating. Do Not Thin.

APPLICATION: Surface and air temperatures must be a minimum of 55°F and rising. DO NOT apply if heavy dew or rain is expected within 24-48 hours. Apply on clear, sunny day in morning hours with a 3/4" nap exterior paint roller. Prime entire roof surface with Sta-Kool # 690 and allow to cure 4-6 hours. Apply second coat of Sta-Kool # 690 and embed Stress-Block # 190 Reinforcing Fabric into coating while wet. Fabric should be rolled out and embedded completely flat in a continuous manner. Only cut fabric at edge of roof or to avoid drains and protrusions in roof surface. Apply final layer of Sta-Kool # 690 brushing over and into Stress-Block # 190 Reinforcing Fabric. When beginning each section, be sure to overlap all edges of Stress-Block # 190 Fabric 6-8". Apply Sta-Kool # 690 between layers of fabric to ensure complete waterproof barrier. Allow to cure 48 hours before topcoating.

COVERAGE RATE: Approximately 50-75 sq. ft. per gal. per coat. See diagram on side of pail. (Total Coverage for two (2) coat application is 25-35 sq. ft. per gallon.)

CLEAN UP: Clean tools with warm water and soap immediately after use.

PRECAUTIONS: DO NOT allow product to freeze. Protective clothing and eye wear should be used during application of this product. When transporting this product, ensure that lid is tight and pail secured and upright. DO NOT allow pail to tumble as this may cause lid to loosen and leakage to occur. DO NOT store at temperatures above 110° F. Close container when not in use. DO NOT reuse empty containers. Not for use on EPDM or some single ply membranes.

REGULATORY/ENVIRONMENTAL CHARACTERISTICS

Volatile Organic Compound	35 g/l max. (28 lb./gal.)
HMTS Rating	H-1, F-0, R-0, PP-A
RCRA Hazardous Substances	no
SARA Title III listing	
Sec 302 Extremely Hazardous Substances	no
CERCLA Hazardous Substances	no
Sec 313 Toxic Chemicals	no
Clay	CAS # 1332-58-7
Fibers	CAS # 14808-60-7
Polymers	CAS # MIXTURE
Asphalt	CAS # 8052-42-4

Manufactured by
Pro-Seal Corp., Tampa, FL 33675

TYPICAL PHYSICAL CHARACTERISTICS:

Elongation	150%-200%
Tensile Strength	150 PSI
Adhesion to Polyurethane Foam	Excellent
Weight Per Gallon, lbs.	8.5
Color	Black
Residue by Evaporation, %	50%
Combustible Solvents	None
Consistency	Spray or Brush
Cure Time	24 Hours between coats
(at recommended coverage	24-48 Hours full cure
at 50% max humidity)	
Application Temperatures	55° F and rising 120° F max
Clean up Tools	Water
Approx. Shipping Weights. (Note: All approximate weights include container.)	
1 gallon (3.8L)	9.5 lbs.
(4) 1 gallon containers/case	40 lbs.
5 gallons (18.9L)	50 lbs.
55 gallon drums (208.2L)	517 lbs.

CAUTION! HARMFUL IF SWALLOWED. MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION. USE WITH ADEQUATE VENTILATION. KEEP CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN.

FIRST AID- Avoid prolonged breathing of vapor or spray mist (NIOSH/MSHA TC 23C or equivalent). In Case Of

INGESTED: Contact a physician immediately.

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush thoroughly with clean water and contact a physician immediately.

10 YEAR LIMITED WARRANTY: Sta-Kool System Gold is guaranteed to form a protective coating to your roof, for a period of ten (10) years from the date of purchase. This warranty is only applicable when the Sta-Kool System Gold products are used for and with repairs, base coat, reinforcing fabric and top-coat according to product instructions. All surfaces must maintain a minimum slope of 1" per foot (5%), to be eligible for this warranty. This 10 year level warranty does not cover flat roofs, or poor drainage surfaces where ponding or standing water exists. If the coating does not perform as stated during the guarantee period, we will provide, with sales receipt, the original purchaser with replacement product to repair the affected part of the roof.

1-10 YEAR LIMITED PONDING WATER WARRANTY: Sta-Kool System Gold is guaranteed to form a protective coating to your roof, for a period of one (1) year from the date of purchase. This warranty may be renewed on a yearly basis, for a maximum of ten (10) years, with thorough cleaning and reapplication of Sta-Kool # 790. This warranty is only applicable when the Sta-Kool System Gold products are used for and with repairs, base coat, reinforcing fabric and top-coat according to product instructions. This warranty covers flat roof surfaces where ponding water exists. Roof drains must be in good repair and working properly. To be eligible for extended warranty, roof must be coated annually within 45 days of month and day (of original receipt). If the coating does not perform as stated during the guarantee period, we will provide, with sales receipt(s), the original purchaser with replacement product to repair the affected part of the roof.

DISCLAIMER: Failures due to acts of God, fire, structural defects or causes beyond our control are excluded from this guarantee. Ensure to comply with all local building codes and regulations. Ensure structural integrity of roof is intact and able to support system and/or ponding water situations and weight loads. This manufacturer is not responsible for any labor, property or other consequential damages or costs incurred in the original or any replacement application. Aesthetic irregularities or normal aging effects do not constitute a loss of product integrity and are not sufficient cause for replacement. Except as stated above, we make no warranties or guarantees, expressed or implied, and none should be inferred.